

**Schedule**

**Soils 150 – Science, Society and Sustainable Food Systems**

**Fall 2004**

<b>Week</b>	<b>Tues</b>	<b>Thurs</b>	<b>Practicum Session (2h,Wed)</b>
1 8/24, 26	I. THE BIG PICTURE Introduction to agriculture and food systems	Overview of world and PNW agricultural systems <u>Reading:</u> Solbrig & Solbrig,(1995)	No class
2 8/31, 9/2	Overview of world and PNW agricultural systems, including approaches to assessing systems <u>R:</u> Fast Food Nation-Intro <b>(HW 1 – reflection – due)</b>	Overview of world and PNW agricultural systems (finish)  <b>(HW 2 – Science – due)</b>	<u>LISTEN/DISCUSS:</u> <i>Evaluating Sustainability</i> (video)
3 9/7, 9	What is Science, and how does it apply in food systems? <u>R:</u> Lipps essay ( <a href="http://www.ucmp.berkeley.edu/fosrec/Lipps.html">http://www.ucmp.berkeley.edu/fosrec/Lipps.html</a> )	Our Retail Supply - Grocery Store Discussion and System Mapping  <b>(HW 3-Grocery- due)</b>	<u>EXPERIMENT:</u> Start greenhouse experiment (plant response to fertilizer treatment)
4 9/14, 16	II. FOOD PRODUCTION & THE ENVIRONMENT -Basics of Agroecosystems <u>R:</u> Altieri (1995) Ch.3	-Basics of Agoecosystems II -Role Play – Criticisms of Agric. <u>R:</u> H&M Ch1	<u>EXPLORE:</u> Field trip to Owen Science Library - Finding science-based info ( <a href="http://griffin.wsu.edu">griffin.wsu.edu</a> ) <b>Owen Science Library,then 319D</b>
5 9/21, 23	Community Food Systems ( <i>Colette DePhelp Rural Roots</i> )	- <b>Quiz 1</b> - Soils: Our Environmental Filter and Source of Our Food	<u>EXPLORE:</u> Institutional Food Systems - Rotunda Dining Hall <b>Meet at Rotunda Dining Hall</b>
6 9/28, 30	Soils – what are they and why do we care? <u>R:</u> H&M, Ch. 3	What, When and Why of Fertilizers	<u>EXPLORE:</u> Compost Facility <a href="http://www.compost.wsu.edu/">http://www.compost.wsu.edu/</a>
7 10/5, 7	Politics and SFS – What you can do. ( <i>Read Smith ,Farmer &amp; former President NACD</i> ) <b>(HW 4 (Local Foods) due)</b>	Pest Management: What, When and Why of Pesticides? ( <i>Rob Gallagher, WSU-Crop &amp;Soils</i> ) <u>R:</u> H&M, Ch 7 <b>(HW 5 due)</b>	<u>COMMUNICATE:</u> Presenting Data <b>(Meet in room 404–go up NE stairs)</b>
8 10/12, 14	Water Quality Issues ( <i>Craig Cogger,WSU-Puyallup</i> ) <a href="http://www.puyallup.wsu.edu/soilmgmt/">http://www.puyallup.wsu.edu/soilmgmt/</a>	Plant breeding, Genes and GMOs ( <i>Steve Jones,WSU-Wheat Breeder</i> ) <u>R*:</u> Pollan “ <a href="#">Great Yellow Hype</a> ”; Spilman,Gaines&Vogel... <b>HW6Due</b>	<u>EXPLORE:</u> Wheat Breeding Lab
9 10/19,21	Food Quality Assessment ( <i>Stephanie Clark – WSU Food Science and Human Nutr.</i> ) <i>Note – this is important prep for this week’s Practicum session!</i>	Biodiversity <u>R:</u> H&M, Ch.6	<u>COMMUNICATE/EXPERIMENT:</u> - Progress Report on Greenhouse - Planning Experiments – develop hypotheses and experimental design (for next week’s lab)
10 10/26,28	Case Studies I <b>(HW 7 due – for discussion)</b> <u>R:</u> (See assignment handout)	Livestock & Sustainable Food Systems <u>R:</u> Pollan (2002) <a href="#">This Steer’s Life</a>	<u>EXPERIMENT:</u> Setting up and conducting experiments – food quality
11 11/2, 4	UNIT III– SOCIOECONOMIC ISSUES & FACTORS Different views/roles of the same food: Huckleberry Case Study ( <i>Matt Carroll – WSU-NRS</i> )	Wrap-up - Food Production & Sustainability <b>(HW 8-Livestock-due)</b>	<u>EXPERIMENT:</u> Greenhouse - Plant leaf area measurements.
12 11/9, 11	How Ag Policies Affect Sustainable Ag. ( <i>Doug Young – Ag&amp;Res Econ</i> ) <u>R*:</u> Young (1989)	Veterans Day NO CLASS	<u>COMMUNICATE:</u> Creating Scientific Presentations <b>(Meet in Johnson 404)</b>
13 11/16, 18	<i>My Father’s Garden</i> (Story of two dedicated, innovative farmers – 58 minutes!)	TBA <b>Quiz 2 (Take-home) due</b>	<u>EXPLORE:</u> Another WSU Food System Enterprise –Ferdinand’s
11/23, 25	THANKSGIVING	BREAK	NO CLASS
14 11/30,12/2	Ag and Community <u>R:</u> TBA	Poverty, Hunger and Food Security <b>(HW 9–Food Security–due for disc)</b>	<u>COMMUNICATE:</u> Poster Presentations about Greenhouse Experiments
15 12/7, 9	<i>Broken Limbs</i> (WA Apple Industry & Sustainability)	Case studies II <b>(HW 10 due – for discussion)</b>	<u>COMMUNICATE:</u> Oral Reports on Interviews with Agricultural Professionals
16	Finals Week Quiz 3 -		

H&M = Home and McDermott. 2001. The Next Green Revolution  
\* IMPORTANT TO read BEFORE class